

STATE OF INDIANA

INDIANA UTILITY REGULATORY COMMISSION

IN THE MATTER OF THE PETITION  
OF THE CITY OF BOONVILLE, INDIANA  
FOR AUTHORITY TO ISSUE BONDS AND  
FOR THE APPROVAL OF A NEW SCHEDULE OF  
RATES AND CHARGES

)  
)  
) CAUSE NO. 43477  
)  
)

**FILED**

JUN 02 2008

INDIANA UTILITY  
REGULATORY COMMISSION

**PREFILED DIRECT TESTIMONY  
OF  
BRIAN A. BULLOCK, P.E.**

**ON BEHALF OF PETITIONER  
CITY OF BOONVILLE, INDIANA**

**PREFILED DIRECT TESTIMONY  
OF  
BRIAN A. BULLOCK, P.E.  
IURC CAUSE NO. 43477**

1   **Q.   PLEASE STATE YOUR NAME AND BUSINESS ADDRESS.**

2   A.   My name is Brian A. Bullock. My business address is Midwestern Engineers, Inc., P.O.  
3       Box 295, 802 West Broadway Street, Loogootee, Indiana 47553

4   **Q.   BY WHOM ARE YOU EMPLOYED AND IN WHAT CAPACITY?**

5   A.   I am a Project Engineer and Principal of Midwestern Engineers, Inc.

6   **Q.   ON WHOSE BEHALF ARE YOU APPEARING IN THIS PROCEEDING?**

7   A.   I am appearing on behalf of the City of Boonville, Indiana, the Petitioner in this  
8       proceeding (the "City").

9   **Q.   PLEASE BRIEFLY DESCRIBE YOUR EDUCATIONAL BACKGROUND.**

10  A.   I am a graduate engineer of the University of Evansville, with a B.S. in Civil Engineering.

11  **Q.   PLEASE BRIEFLY DESCRIBE YOUR PROFESSIONAL BACKGROUND AND**  
12  **YOUR FIRM'S QUALIFICATIONS.**

13  A.   I am a registered professional engineer in the State of Indiana. I have personally designed  
14       and prepared plans and specifications, developed funding alternatives including bonding,  
15       developed operating budgets, and assisted in the actual construction of various water and  
16       wastewater facilities. Projects that I have designed and certified plans for are South  
17       Lawrence Utilities, Town of Odon, Town of Switz City, Crawford County Water  
18       Company, Town of Leavenworth and Dubois Water Utilities. I was the design Engineer  
19       and project manager for the Phase I Water System Improvements that received IURC  
20       approval in 2006. I have also designed numerous water improvement projects under the  
21       supervision of other Professional Engineers, which include projects for North Lawrence  
22       Water Authority, Town of Patoka, City of Cannelton, Pike-Gibson Water, Town of  
23       Corydon, Stucker Fork Conservancy District and City of Loogootee. For 49 years,

1       Midwestern Engineers has been involved in the development, including design, funding,  
2       and construction of numerous facilities for rural water corporations, conservancy districts  
3       and municipalities throughout the State of Indiana. I am an active member in the  
4       American Waterworks Association and American Council of Engineering Companies of  
5       Indiana.

6       **Q.    IS YOUR FIRM CURRENTLY EMPLOYED BY THE CITY?**

7       A.    Yes, it is.

8       **Q.    PLEASE DESCRIBE YOUR FIRM'S WORK FOR THE CITY.**

9       A.    The City asked Midwestern Engineers to prepare a comprehensive study of the City's  
10       waterworks existing water system ("Utility") and recommend necessary capital  
11       improvements. We prepared the Preliminary Engineering Report for Water System  
12       Improvements for the City of Boonville, Warrick County, Indiana in 2004 (the  
13       "Preliminary Engineering Report") that identified numerous areas of the Utility that were  
14       in need of improvement and recommended a specific capital improvement program. The  
15       Preliminary Engineering Report is identified as Petitioner's Exhibit No. BAB-1. We later  
16       prepared Addendum No. 1 to the Preliminary Engineering Report in August 2005.  
17       Addendum No. 1 outlined improvement that were to be completed in Phase I and that  
18       were part of the last IURC rate case. The 2005 Addendum No. 1 is identified as  
19       Petitioner's Exhibit No. BAB-2. We subsequently prepared Addendum No. 2 to the  
20       Preliminary Engineering Report in April 2008 ("2008 Addendum No. 2"). The 2008  
21       Addendum No. 2 outlines the improvements that are proposed to be completed in Phase II  
22       and will be part of this IURC rate case. It also outlines improvements that are required to  
23       wholesale water to the Yankeetown Water Authority. The 2008 Addendum No. 2 is  
24       identified as petitioner's Exhibit No. BAB-3.

1 **Q. WOULD YOU PLEASE DESCRIBE THE PRELIMINARY ENGINEERING**  
2 **REPORT AND ITS ADDENDA?**

3 A. Page 1 of the Preliminary Engineering Report serves as the Executive Summary. Chapter  
4 1 discusses the location of the project area and the planning area for Boonville. The  
5 existing water facilities are described in detail with their respective need for  
6 improvements in Chapter 2. The facilities are broken out into supply, treatment, storage  
7 and distribution. Chapter 3 presents the historical population data, projected populations,  
8 historical water production, significant users and projected demands of the system.  
9 Chapter 4 discusses the evaluation of alternatives. These included the no action,  
10 optimum operation of existing facilities, water supply improvements, new water  
11 treatment plant, water storage improvements and water distribution improvements. The  
12 evaluation of environmental impacts is discussed in Chapter 5. Chapter 6 presents the  
13 selected plan. This chapter also presents the probable project costs and preliminary  
14 design summary for the entire project. Chapter 7 and 8 consist of requirements of the  
15 State Revolving Fund such as resolutions, financing information, and public participation.  
16 The final page presents our conclusions and recommendations.

17  
18 Page 1 of Addendum No. 1 presented different phasing for these improvements that were  
19 part of the last rate case.

20  
21 Page 1 of the 2008 Addendum No. 2 presents different phasing for the improvements that  
22 are part of this rate case.

23 **Q. WAS THE SCOPE OF THE PROJECT NARROWED FOR PURPOSES OF THE**  
24 **LAST RATE CASE?**

1 A. Yes, after discussions between the City and their professional advisors, the City elected to  
2 proceed with a portion of the overall project in order to meet the immediate needs of the  
3 water system. This portion was set forth in Addendum No. 1 to the Preliminary  
4 Engineering Report identified as Petitioner's Exhibit No. BAB-2. The City received  
5 approval of bond financing to fund the construction as described in Addendum No. 1.

6 **Q. IS YOUR FIRM PREPARING CONSTRUCTION PLANS AND SPECIFICATIONS?**

7 A. Yes, construction plans and specifications are being prepared under my supervision. It is  
8 anticipated that those plans and specifications will be completed by July 2008.

9 **Q. WHAT IS THE PURPOSE OF YOUR TESTIMONY IN THIS PROCEEDING?**

10 A. The purpose of my testimony is to describe: (1) the proposed water system improvement  
11 projects for which the City is seeking authority to finance with bonds; (2) the need for the  
12 proposed project; and (3) the estimated project costs that can be expected as a result of  
13 the proposed project.

14 **Q. PLEASE DESCRIBE THE UTILITY'S EXISTING WATER SYSTEM.**

15 A. Water for the City of Boonville is currently provided by four wells located approximately  
16 5 miles Southeast of the City Limits. Wells #5, #7 and #8 have rated capacities of 600  
17 GPM. Well #6 is approximately 250 GPM. A new 18-inch transmission main was  
18 installed from the well field to the City's distribution system in 2006-07 and was part of  
19 the last rate case. This increased the well field capacity to 2,000 GPM with the largest  
20 well out of service. Therefore, the total capacity of the well field is 2,880,000 GPD over  
21 a full day. The wells pump to a 575,000 gallon clearwell.  
22

1 A raw water booster station then pumps water to the treatment plant. The pumps in the  
2 raw water booster station have been rebuilt numerous times. This booster station is also  
3 capable of producing 2,000 GPM or 2,880,000 GPD over a full day.  
4

5 The water treatment facility for the City of Boonville is located in the middle of the City,  
6 just South of Moore Street and West of Owensboro Road. The treatment plant was  
7 constructed in 1976 with improvements being made in 1991. It consists of six (6) vertical  
8 manganese greensand pressure filters. Four of these filters were installed as part of the  
9 original plant and two were installed in 1991. These filters have a rated capacity of 325  
10 GPM and a design operating pressure of 100 psi. The four original filters had their media  
11 replaced in 1995. Water is pumped from the raw water booster station through  
12 approximately 4 miles of 18-inch raw water main, then through the filters into a clearwell  
13 at the existing plant site. This clearwell has a capacity of 1.6 million gallons. The finished  
14 water is then pumped by the high service pumps into the distribution system and the  
15 water storage tanks. These high service pumps were installed with the original plant in  
16 1976. Both pumps have a reported capacity of 1,500 GPM. The capacity of the treatment  
17 facility is 2.16 MGD. The high service pumps at the water treatment facility are nearly 32  
18 years old and have been rebuilt at least four times. The majority of the treatment facilities  
19 are over 30 years old and are reaching the end of their useful life and additional capacity  
20 will be required in order to meet future peak demands.  
21

22 There are three (3) water storage tanks providing a total of 1,500,000 gallons of storage  
23 for the City. The South storage tank is a 500,000 gallon elevated tank with an overflow  
24 elevation of 564.41 feet above sea level. This tank was constructed in 1966 and was

1 repainted in 1998. The North storage tank is also a 500,000 gallon elevated tank with an  
2 overflow elevation of 566.29 feet above sea level. It was constructed in 1998. The West  
3 storage tank is also a 500,000 gallon elevated tank with an overflow elevation of 564.72.  
4 This tank was constructed in 2006-07 and was part of the last rate case. The mean  
5 average daily demand for the system over the last 5 years is 1.1 MGD. As a general rule  
6 of thumb, the storage capacity should be one to two days of usage.

7  
8 Boonville's distribution facilities consist of over 50 miles of mostly 2-inch through 10-  
9 inch water mains. The majority of the distribution system consists of cast iron water  
10 mains. More recently constructed mains are PVC or ductile iron. There are some older  
11 asbestos cement water mains within the system. There are only two (2) finished water  
12 booster stations. The Eby Road booster station has a reported capacity of 40 GPM and is  
13 located at the intersection of Eby Road and Folsomville Road. It pumps water to the  
14 higher terrain area on the North side of the City. The other booster station is located on  
15 Mt. Gilead Road and has a capacity of 60 GPM. It pumps water to the higher terrain area  
16 on the south side of the City. This booster station was also constructed in 2006-07 and  
17 was part of the last rate case. The high service pumps at the water treatment plant, which  
18 are controlled by telemetry at the South tank, pump water directly into the distribution  
19 system.

20 **Q: PLEASE DESCRIBE THE CITY'S PLANNING AREA AND THE HISTORICAL**  
21 **AND PROJECTED POPULATION.**

22 **A.** The City of Boonville's water planning area includes the entire City as well as areas  
23 outside of the City limits. This area extends approximately 4 miles north of the City limits  
24 to Greenbriar Road, 2.5 miles east of the City limits, 4.5 miles south of the City limits to

1 the Warrick-Spencer County line and 0.2 miles to the west of the City limits. This area is  
2 primarily contained in Boon Township. A small portion of the planning area North of the  
3 City Limits is in Hart Township. I refer you to Page 3 of the Preliminary Engineering  
4 Report for a map of this area. The population for the City of Boonville increased from  
5 6,200 to 6,834 from 1980 to 2000, Boon Township increased from 11,420 to 12,844 for  
6 the same time period, and Warrick County increased from 41,474 to 52,383 for the same  
7 time period. Please refer to Page 12 of the Preliminary Engineering Report for the  
8 historical population data. The City of Boonville's population has increased by 8.5%,  
9 Boon Township's population has increased by 12.5%, and Warrick County's population  
10 has increased by 26.3%. According to projections by the Indiana Business Research  
11 Center, Boon Township's population is projected to increase by 8.0% from the year 2000  
12 to 2020 and Warrick County's population is projected to increase by 12.7%.

13 **Q. PLEASE IDENTIFY CURRENT AND PROJECTED WATER DEMANDS ON**  
14 **THE UTILITY.**

15 A. The mean peak daily demand for the last five years is 1.59 MGD and the mean average  
16 daily demand is 1.1 MGD. The City of Boonville currently serves approximately 3,700  
17 water customers. Approximately 97% of these customers are residential. The average per  
18 capita usage for Boonville is 300 GPD/customer (1,100,000 GPD/3,700 customers).  
19 Boonville has experienced little population growth over the last several years while  
20 outside of the City Limits, new residential development has occurred. This trend will  
21 likely continue. Long-term growth potential in the planning area was evaluated by  
22 assessing how much of the planning area could be developed into residential lots.  
23 Approximately 9,000 acres of developable land is located within the planning area. Given  
24 the City's location near Evansville, it is very likely that a third of this area will be



1 developed over the next 20 years. Using Quail Crossing development near Boonville as  
2 an example, the potential number of lots per acre will be 1.6. Long term, Boonville  
3 should anticipate residential growth of 4,800 lots. This equates to a customer base of  
4 8,500 customers in the year 2024. Therefore, the projected average daily demand in the  
5 year 2024 will be 2,550,000 GPD (8,500 customers x 300 GPD/customer); and the  
6 projected peak daily demand is 3,570,000 GPD. A peaking factor of 1.4 was used to  
7 calculate the projected peak daily demand. This peak factor is typical of what the water  
8 system has experienced the past five years.

9 **Q. PLEASE DESCRIBE THE PROPOSED CAPITAL IMPROVEMENTS FOR**  
10 **WHICH THE CITY IS SEEKING FINANCING AUTHORITY IN THIS**  
11 **PROCEEDING.**

12 A. Phase II will consist of construction of two (2) new 500 GPM wells adjacent to the  
13 existing well field. This will increase the capacity of the well field to 3,000 GPM with  
14 the largest well out of service. New meters will also be installed on the existing wells. A  
15 new 3,000 GPM water treatment plant will also be constructed as part of this phase. The  
16 third part of the project is to sandblast and repaint the existing south 500,000 gallon  
17 elevated water storage tank located adjacent to the hospital. All of these improvements  
18 were included in the original Preliminary Engineering Report with the exception of re-  
19 painting the existing water storage tank. All of the maps and site plans for the project that  
20 were submitted in the original Preliminary Engineering Report remain unchanged. Also  
21 the design summary is unchanged. The Yankeetown Water Authority has approached the  
22 City to inquire about purchasing 100,000 GPD of water from Boonville. In order to  
23 supply Yankeetown water, Boonville will have to install pumps in the new water  
24 treatment plant dedicated to pump to Yankeetown. It will also have to construct an 8-  
25 inch water main to connect the two (2) systems and will also include a new meter pit. It  
26 will be designed so that Yankeetown could sell Boonville water in an emergency  
27 situation.

1 Q. BASED UPON YOUR EXPERIENCE AND YOUR INVESTIGATION AND  
2 STUDY OF THE UTILITY'S EXISTING SYSTEM, DO YOU HAVE AN  
3 OPINION AS TO WHETHER THE PROPOSED CAPITAL IMPROVEMENTS  
4 TO THE CITY'S WATER SYSTEM ARE NECESSARY IN ORDER FOR THE  
5 CITY TO PROVIDE REASONABLY ADEQUATE WATER SERVICE TO ITS  
6 CUSTOMERS?

7 A. Yes, I do.

8 Q. WHAT IS THAT OPINION?

9 A. The City's proposed capital improvements are necessary to continue to provide adequate  
10 and reliable water service to its customers. The specific improvements and the respective  
11 need therefore are described in detail on pages 4 through 14 of the Preliminary  
12 Engineering Report and in 2008 Addendum No. 2.

13 Q. HAVE YOU PREPARED A PRELIMINARY COST ESTIMATE FOR THE  
14 PROPOSED CAPITAL IMPROVEMENTS?

15 A. Yes. The total proposed cost summary is set forth in the 2008 Addendum No. 2, and  
16 totals \$7,600,000.00 for the Phase II Improvements and \$540,000.00 for the Yankeetown  
17 Improvements.

18 Q. DOES THIS CONCLUDE YOUR DIRECT TESTIMONY?

19 A. Yes, it does.  
20

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IURC Cause No. 43477

File Date: 6/2/08

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Additional Notes:

BAB-2

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**ADDENDUM NO. 2**  
**TO THE**  
**PRELIMINARY ENGINEERING REPORT**  
**FOR**  
**WATER SYSTEM IMPROVEMENTS**  
**FOR THE**  
**CITY OF BOONVILLE**  
**WARRICK COUNTY, INDIANA**  
**APRIL 2008**  
**REVISED: May 30, 2008**

**I. Purpose of Report**

The purpose of the report is to revise the scope of the phases that were outlined in the original Preliminary Engineering Report dated August 2004 and the Addendum No. 1 to the PER dated August 2005. Phase I consisted of construction of the 18-inch transmission main from the existing well field to the raw water booster station then to the existing water treatment plant. A new booster station was also constructed in the first phase to eliminate the documented low pressure areas along Mt. Gilead Road. This phase also consisted of installing new 6-inch water mains along SR 61, Lovers Lane, Homestead Drive, Orchard Drive and Stonehaven Circle to increase flow capabilities to this area on the North side of the City. The last part of the first phase was construction of a new 500,000 gallon elevated water storage tank on the City's southwest side. This included construction of 10-inch and 8-inch reinforcement mains in this area. Phase II will consist of construction of two (2) new 500 gpm wells adjacent to the existing well field. This will increase the capacity of the well field to 3,000 gpm with the largest well out of service. New meters will also be installed on the existing wells. A new 3,000 gpm water treatment plant will also be constructed as part of this phase. The third part of the project is to sandblast and repaint an existing 500,000 gallon elevated water storage tank located adjacent to the hospital. All of these improvements were included in the original PER with the exception of re-painting the existing water storage tank. All of the maps and site plans for the project that were submitted in the original PER remain unchanged. Also the design summary is unchanged.

The Yankeetown Water Authority has approached the City to inquire about purchasing 100,000 GPD of water from Boonville. In order to supply Yankeetown water, Boonville will have to install pumps in the new water treatment plant dedicated to pump to Yankeetown. It will also have to construct an 8-inch water main to connect the two (2) systems and will also include a new meter pit. It will be designed so that Yankeetown could sell Boonville water in an emergency situation.

## II. Cost Estimates

Cost Estimates for the Phase II and the Yankeetown project are included on the next pages.

**PROBABLE PROJECT COST  
FOR  
WATER SYSTEM IMPROVEMENTS - PHASE II  
FOR THE  
CITY OF BOONVILLE  
APRIL, 2008**

**I. PROBABLE CONSTRUCTION COSTS - WELL FIELD IMPROVEMENTS**

| ITEM NO.   | DESCRIPTION                            | ESTIMATED QUANTITY | UNIT PRICE   | TOTAL PRICE         |
|--|--|--------------------|--------------|---------------------|
| 1.   | NEW 500 GPM WELLS                      | 2 EA.              | \$170,000.00 | \$340,000.00        |
| 2.   | 16" D.I. WATER MAIN W/POLY. ENCASEMENT | 600 L.F.           | \$60.00      | \$36,000.00         |
| 3.   | 12" D.I. WATER MAIN W/POLY. ENCASEMENT | 500 L.F.           | \$50.00      | \$25,000.00         |
| 4.   | PORTABLE GENERATOR                     | 1 L.S.             | \$60,000.00  | \$60,000.00         |
| 5.   | ABANDON OLD WELL FIELD                 | 1 L.S.             | \$20,000.00  | \$20,000.00         |
| 6.   | EXISTING WELL FIELD IMPROVEMENTS       | 1 L.S.             | \$20,000.00  | \$20,000.00         |
| SUB-TOTAL  |  |                    |              | \$501,000.00        |
| CONTINGENCIES  |  |                    |              | \$49,000.00         |
| <b>TOTAL PROBABLE CONSTRUCTION COSTS - WELL FIELD IMPROVEMENTS</b> |  |                    |              | <b>\$550,000.00</b> |

**II. PROBABLE CONSTRUCTION COSTS - NEW WATER TREATMENT PLANT**

| ITEM NO.   | DESCRIPTION               | ESTIMATED QUANTITY | UNIT PRICE     | TOTAL PRICE           |
|--|---------------------------|--------------------|----------------|-----------------------|
| 1.   | NEW WATER TREATMENT PLANT | 1 L.S.             | \$5,160,000.00 | \$5,160,000.00        |
| SUB-TOTAL  |                           |                    |                | \$5,160,000.00        |
| CONTINGENCIES  |                           |                    |                | \$520,000.00          |
| <b>TOTAL PROBABLE CONSTRUCTION COSTS - NEW WATER TREATMENT PLANT</b> |                           |                    |                | <b>\$5,680,000.00</b> |

**III. PROBABLE CONSTRUCTION COSTS - RE-PAINTING EXISTING WATER STORAGE TANK**

| ITEM NO.   | DESCRIPTION  | ESTIMATED QUANTITY | UNIT PRICE   | TOTAL PRICE           |
|--|--|--------------------|--------------|-----------------------|
| 1.   | SANDBLAST & RE-PAINT EXISTING 500,000 GALLON ELEVATED WATER STORAGE TANK | 1 L.S.             | \$225,000.00 | \$225,000.00          |
| SUB-TOTAL  |  |                    |              | \$225,000.00          |
| CONTINGENCIES  |  |                    |              | \$25,000.00           |
| <b>TOTAL PROBABLE CONST. COSTS - RE-PAINTING EXISTING WATER STORAGE TANK</b> |  |                    |              | <b>\$250,000.00</b>   |
| <b>TOTAL PROBABLE CONSTRUCTION COSTS</b>                                     |  |                    |              | <b>\$6,480,000.00</b> |

**IV. PROBABLE NON-CONSTRUCTION COSTS**

|   |                    |
|---|--------------------|
| 1. ENGINEERING                          | \$450,000.00       |
| 2. INSPECTION                           | \$185,000.00       |
| 3. LEGAL, BOND COUNSEL & ISSUANCE COSTS | \$280,000.00       |
| 4. RATE ACCOUNTANT                      | \$100,000.00       |
| 5. SOIL BORINGS & PERMITS               | \$33,000.00        |
| 6. LAND FOR NEW WELL FIELD              | <u>\$72,000.00</u> |

|  |                       |
|--|-----------------------|
| <b>TOTAL PROBABLE NON-CONSTRUCTION COSTS</b> | <b>\$1,120,000.00</b> |
|--|-----------------------|

|  |                       |
|--|-----------------------|
| <b>V. TOTAL PROBABLE PROJECT COSTS</b> | <b>\$7,600,000.00</b> |
|--|-----------------------|

**PROBABLE PROJECT COSTS  
FOR  
YANKEETOWN WATER MAIN EXTENSION  
FOR THE  
CITY OF BOONVILLE**

**MARCH 2007**

**REVISED: FEBRUARY 2008**

| <b>ITEM<br/>NO.</b>                         | <b>DESCRIPTION</b>              | <b>ESTIMATED<br/>QUANTITY</b> |      | <b>ESTIMATED<br/>UNIT PRICE</b> | <b>ESTIMATED<br/>TOTAL PRICE</b> |
|---|---------------------------------|-------------------------------|------|---------------------------------|----------------------------------|
| 1.  | 8" PVC, C-900 WATER MAIN        | 10,000                        | L.F. | \$28.00                         | \$280,000.00                     |
| 2.  | 8" CREEK CROSSING               | 60                            | L.F. | \$60.00                         | \$3,600.00                       |
| 3.  | FIRE HYDRANTS W/6" GATE VALVES  | 3                             | EA.  | \$2,500.00                      | \$7,500.00                       |
| 4.  | 8" GATE VALVE                   | 5                             | EA.  | \$800.00                        | \$4,000.00                       |
| 5.  | 10" x 8" WET TAP                | 1                             | EA.  | \$2,500.00                      | \$2,500.00                       |
| 6.  | BLACK TOP RESURFACING           | 60                            | L.F. | \$25.00                         | \$1,500.00                       |
| 7.  | "B" BORROW BACKFILL             | 100                           | TONS | \$10.00                         | \$1,000.00                       |
| 8.  | NEW HIGH SERVICE PUMPS & PIPING | 1                             | L.S. | \$50,000.00                     | \$50,000.00                      |
| 9.  | NEW MASTER METER PIT            | 1                             | L.S. | \$60,000.00                     | \$60,000.00                      |
| <b>SUB-TOTAL</b>                            |                                 |                               |      |                                 | <b>\$410,100.00</b>              |
| <b>CONTINGENCIES</b>                        |                                 |                               |      |                                 | <b>\$40,900.00</b>               |
| <b>TOTAL PROBABLE CONSTRUCTION COST</b>     |                                 |                               |      |                                 | <b>\$451,000.00</b>              |
| <b>TOTAL PROBABLE NON-CONSTRUCTION COST</b> |                                 |                               |      |                                 | <b>\$89,000.00</b>               |
| <b>TOTAL PROBABLE PROJECT COST</b>          |                                 |                               |      |                                 | <b>\$540,000.00</b>              |



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